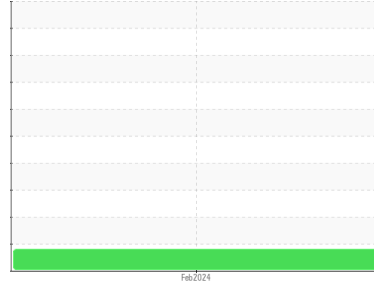




Machine Id  
**OR252**  
Component  
**Right Reduction Gear**  
Fluid  
**{not provided} (--- LTR)**



**DIAGNOSIS**

**Recommendation**  
We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. Please specify the brand, type, and viscosity of the oil on your next sample.

**Wear**  
Iron ppm levels are abnormal. The low ferrous density (PQ) index indicates the wear metal levels are due to corrosion.

**Contamination**  
There is no indication of any contamination in the oil.

**Fluid Condition**  
Viscosity of sample indicates oil is within SAE 15W40 range, advise investigate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

**SAMPLE INFORMATION**

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>PC0080585</b>	---	---
Sample Date	Client Info		<b>22 Feb 2024</b>	---	---
Machine Age	hrs Client Info		<b>18014</b>	---	---
Oil Age	hrs Client Info		<b>0</b>	---	---
Oil Changed	Client Info		<b>Not Chngd</b>	---	---
Sample Status			<b>ABNORMAL</b>	---	---

**CONTAMINATION**

	method	limit/base	current	history1	history2
Water	WC Method	>0.1	<b>NEG</b>	---	---

**WEAR METALS**

	method	limit/base	current	history1	history2
PQ	ASTM D8184*		<b>25</b>	---	---
Iron	ppm ASTM D5185(m)	>150	<b>▲ 226</b>	---	---
Chromium	ppm ASTM D5185(m)	>10	<b>2</b>	---	---
Nickel	ppm ASTM D5185(m)	>10	<b>2</b>	---	---
Titanium	ppm ASTM D5185(m)		<b>0</b>	---	---
Silver	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Aluminum	ppm ASTM D5185(m)	>25	<b>8</b>	---	---
Lead	ppm ASTM D5185(m)	>100	<b>&lt;1</b>	---	---
Copper	ppm ASTM D5185(m)	>50	<b>25</b>	---	---
Tin	ppm ASTM D5185(m)	>10	<b>&lt;1</b>	---	---
Antimony	ppm ASTM D5185(m)	>5	<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)		<b>0</b>	---	---
Beryllium	ppm ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm ASTM D5185(m)		<b>0</b>	---	---

**ADDITIVES**

	method	limit/base	current	history1	history2
Boron	ppm ASTM D5185(m)		<b>113</b>	---	---
Barium	ppm ASTM D5185(m)		<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)		<b>0</b>	---	---
Manganese	ppm ASTM D5185(m)		<b>1</b>	---	---
Magnesium	ppm ASTM D5185(m)		<b>6</b>	---	---
Calcium	ppm ASTM D5185(m)		<b>88</b>	---	---
Phosphorus	ppm ASTM D5185(m)		<b>1004</b>	---	---
Zinc	ppm ASTM D5185(m)		<b>32</b>	---	---
Sulfur	ppm ASTM D5185(m)		<b>20422</b>	---	---
Lithium	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---

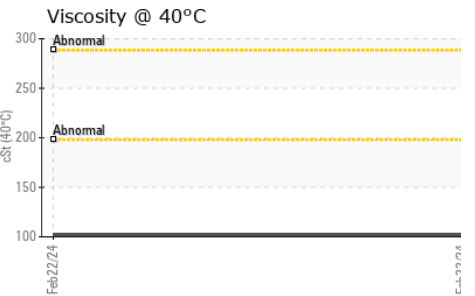
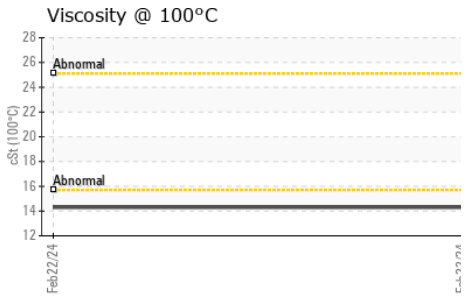
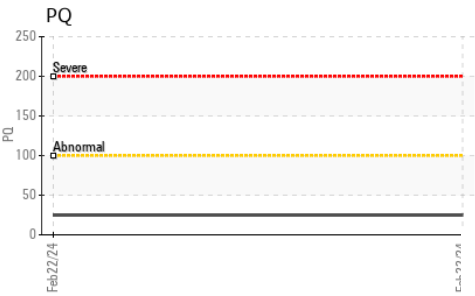
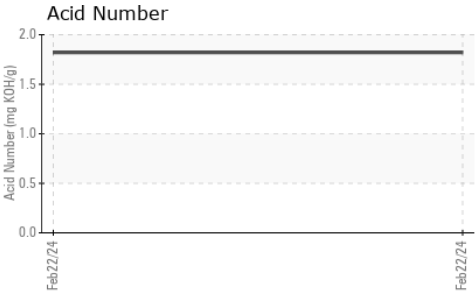
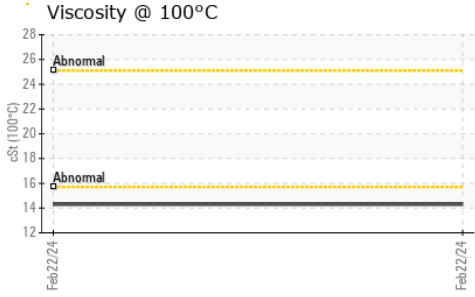
**CONTAMINANTS**

	method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185(m)	>50	<b>38</b>	---	---
Sodium	ppm ASTM D5185(m)		<b>3</b>	---	---
Potassium	ppm ASTM D5185(m)	>20	<b>7</b>	---	---

**FLUID DEGRADATION**

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974*		<b>1.82</b>	---	---

# OIL ANALYSIS REPORT

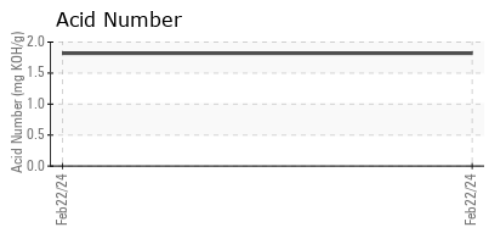
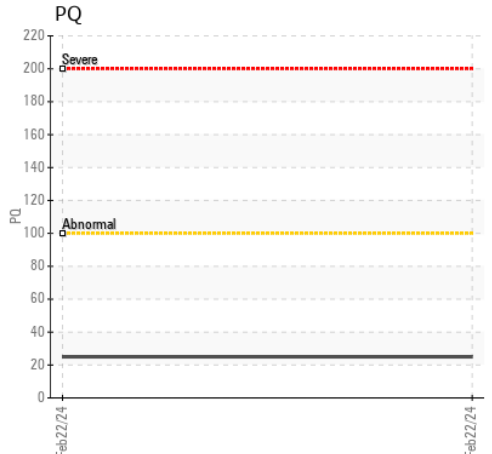
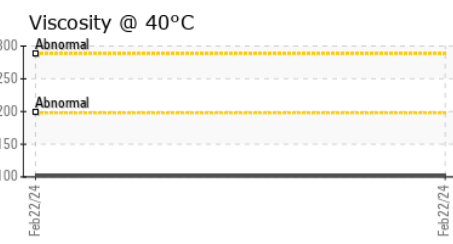
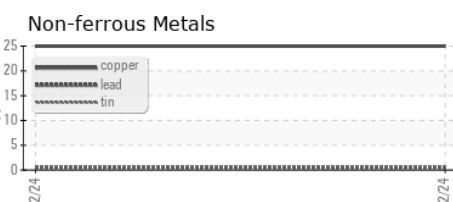
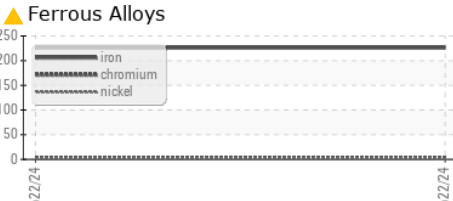


PROPERTY	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	VLITE	---
Yellow Metal	scalar	Visual*	NONE	NONE	---
Precipitate	scalar	Visual*	NONE	NONE	---
Silt	scalar	Visual*	NONE	LIGHT	---
Debris	scalar	Visual*	NONE	NONE	---
Sand/Dirt	scalar	Visual*	NONE	NONE	---
Appearance	scalar	Visual*	NORML	NORML	---
Odor	scalar	Visual*	NORML	NORML	---
Emulsified Water	scalar	Visual*	>0.1	NEG	---
Free Water	scalar	Visual*		NEG	---

PROPERTY	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	102	---	---
Visc @ 100°C	cSt	ASTM D7279(m)	14.3	---	---
Viscosity Index (VI)	Scale	ASTM D2270*	143	---	---

PROPERTY	method	limit/base	current	history1	history2
Color				no image	no image
Bottom				no image	no image

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PC0080585  
**Lab Number** : 02618150  
**Unique Number** : 5735260  
**Test Package** : IND 2 ( Additional Tests: KV100, TAN Man, VI )

Green Infrastructure and Partners Inc (GPI) - 286 - Shoring & Foundations  
 151 Ram Forest Rd,  
 Stouffville, ON  
 CA L4A 2G8  
 Contact: Shannon Abbott  
 sabbott@gipi.com  
 T: (905)750-5900  
 F:

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.